

ABSTRACT OF THE DISCLOSURE

The present invention discloses an alkaline dry cell with a high capacity having a superior liquid leak resistant property. In this alkaline dry cell, the thickness of the trunk portion of an external can is made thinner than 0.18 mm, and the thickness of the sealing edge portion of the external can is set to not less than 1.4 times the thickness of trunk portion. An anode terminal plate is used as a supporting member for a sealing member. Over the entire outer circumferential portion of the anode terminal plate is placed a curved portion having an average curvature radius of not more than 1mm, which shows a virtually C-letter shape or an arc shape in its cross-section obtained by cutting the anode terminal plate through its center in the thickness direction. By providing a structure for supporting the sealing member by this curved portion with the inner circumferential side, the sealing edge portion is allowed to have a sufficient strength, and it is possible to ensure a superior liquid leak resistant property and also to increase the battery inner volume. Moreover, the anode terminal plate has a structure including a terminal face formed in a protruding shape on the center and an outer circumferential flange face formed in a manner so as to surround the terminal face when viewed in a direction penetrating this terminal face vertically, and a flat portion that is not in parallel with the terminal face is placed on the inner circumferential side of the flange face. In the connecting portion of the sealing member, an anti-explosion thin portion is placed on the foot portion on the side of a boss section, and on the foot portion of the outer circumferential portion side, a stress absorbing section for absorbing one portion of a stress that is exerted on the connecting portion at the time of a lateral tightening sealing edge process.

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Fig 1

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